

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00473

**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl. <sup>7</sup>: E21D 9/10, E21C 25/16, 27/12, 27/24

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

AU: E21D 9/10, E21C 25/16, 27/12, 27/24, F16C 32/16

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Dwpi: (E21D 9/10, E21C 25/16, 27/12, 27/24 and bear+) or (F16C 32/06 and hydrostatic+ and (disc or cut+))

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages      | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | US 5125719 A (SNYDER) 30 June 1992<br>Column 4, line 46-column 8, line 8 and the claims | 1-16                  |
| Y         | WO 00/46486 A1 (ODYSSEY TECHNOLOGY PTY LTD) 10 August 2000<br>Figure 7                  | 1-16                  |
| Y         | EP 727562 A1 (ROLLS-ROYCE POWER ENGINEERING PLC) 21 August 1996<br>The whole document   | 1-16                  |
| Y         | US 5462364 A (CHANDRASEKARAN et al) 31 October 1995<br>The whole document               | 1-16                  |



Further documents are listed in the continuation of Box C



See patent family annex

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

3 June 2003

Date of mailing of the international search report

11 JUN 2003

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00473

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in<br>Search Report |           | Patent Family Member |            |
|---|-----------|----------------------|------------|
| US  | 5125719   | AU                   | 17723/92   |
| WO  | 200046486 | WO                   | 9217684    |
|   |           | CA                   | 2361657    |
|   |           | EP                   | 1157190    |
|   |           | US                   | 2002093239 |
| EP  | 727562    | CA                   | 2169330    |
|   |           | JP                   | 8246777    |
|   |           | US                   | 5934761    |
| US  | 5462364   | CA                   | 2120467    |
|   |           | EP                   | 618377     |
| END OF ANNEX                              |           |                      |            |